

FIXED LADDER WITH SAFETY CAGE

Ladders with a climbable height of more than 3m require additional safety such as, a safety cage or safety lines. After 10m the ladder requires a break platform at 6m.

The fixed ladder with Safety Cage is designed to limit the risk of the user falling away from the ladder. For additional security the ladder rungs at the base can be fitted with a lockable rung cover to prevent unauthorised access.



TECHNICAL INFORMATION

SYSTEM TYPE	FIXED LADDER
FUNCTION	HEIGHT ACCESS
MAXIMUM WIDTH	488 MM
MAXIMUM HEIGHT	MAX 10M LENGTH SECTIONS
ANGLE RANGE	N/A
FIXING TYPE	PERMANENT
INSPECTION PERIOD	12 MONTHS
MATERIAL	ALUMINIUM OR GALVANISED STEEL
ADDITIONAL FEATURE(S)	LOCKABLE SAFETY COVER

MATERIAL SPECIFICATION - GALVANISED STEEL PROFILE

YIELD	275 N/MM ² C 0.15–0.26; SI 0.35; MN 1.5; P 0.035; S 0.040; MO 0.4–0.6.
YOUNGS MODULUS OF ELASTICITY	200 X 103 MPA AT 20 °C
DENSITY	7.87 G/CM ³ AT 20 °C
COEFFICIENT OF THERMAL EXPANSION	LOW-CARBON/HSLAS: 12.4 MM/M/°C IN 20 °C TO 100 °C RANGE I-F STEEL: 12.9 MM/M/°C IN 20 °C TO 100 °C RANGE
THERMAL CONDUCTIVITY	LOW-CARBON/HSLAS: 89 W/M°C AT 20°C I-F STEEL: 93 W/M°C AT 20°C
SPECIFIC HEAT	481 J/KG/°C IN 50 °C TO 100 °C RANGE
ELECTRICAL RESISTIVITY	0.142 MΩ•M AT 20 °C

MATERIAL SPECIFICATION - ALUMINIUM PROFILE

ALUMINIUM EXTRUSION	0.50-0.75 Si, MAX 0.35, Fe 0.40-0.70 Mg
TENSILE STRENGTH	PSI 23,000
YIELD STRENGTH	PSI 15,000

OPERATING AND DESIGN STANDARDS

- BS4211:2005+A1:2008
- BS EN 12020-1 AND 2 :2008 ALUMINIUM AND ALUMINIUM ALLOY EXTRUSIONS
- BS EN 755:2008 SERIES EXTRUDED PROFILES
- BS EN 754: 2008 SERIES TOLERANCES ON DIMENSIONS EXTRUDED PROFILES
- BS 1154:2003- PHYSICAL AND COMPOSITIONAL PROPERTIES FOR NATURAL BLACK RUBBER
- ISO 9001:2008
- ISO 14001:2004
- BS OHSAS 18001:2007
- WORK AT HEIGHT REGULATIONS 2005 (REF.7)

TYPICAL CONNECTION LOADS

VERTICAL SHEAR	3.0Kn
TENSION	0.5Kn
UNIFORM LOAD 100MM ²	PSI 15,000
MAXIMUM SWL	450KG